

HAYDEN AREA REGIONIAL SEWER BOARD

10789 N. Atlas Road • Hayden, Idaho 83835 • Fax (208) 772-3863

Ken Windram, Manager Phone (208) 772-0672

May 28, 2010

Mr. Brian Nickel US EPA, Region 10 1200 Sixth Avenue, Suite 900 Seattle, WA 98101

RE: HAYDEN AREA REGIONAL SEWER BOARD - NPDES APPLICATION FORM 2A

Dear Mr. Nickel:

This letter is in response to your request for a new NPDES Application Form 2A for the Hayden Area Regional Sewer Board (HARSB).

The HARSB Wastewater Treatment Facility is owned and operated by the Hayden Area Regional Sewer Board under a Joint Powers Agreement between the City of Hayden, the Hayden Lake Water and Sewer District and Kootenai County. It treats typical municipal wastewater from the City of Hayden the City of Hayden Lake, Kootenai County Airport and unincorporated areas of the County within the Sewer District. The wastewater is all pumped to the treatment plant in multiple force mains and lift stations. The combined flow is metered at the headworks.

The treatment process used is a biological secondary process. The facility is designed to remove BOD and suspended solids.

The wastewater is screened and degritted then divided between three parallel oxidation ditches (1 through 3) and four parallel secondary clarifiers (1 through 4). The clarified water from the treatment trains is recombined for disinfection with chlorine gas. A dechlorination system removes excess chlorine in the final treated water prior to discharge to the Spokane River. When River flows fall below 2,000 cubic feet per second between June 1st and September 30th, reclaimed water is diverted to a HARSB reuse farm under a separate Idaho Department of Environmental Quality permit.

Residual biosolids are dewatered and then composted off-site by a licensed contract operator.

Diesel generators provide a back-up power supply for the entire facility.

The attached flow schematic shows the process units, flows rates, flow directions and recycle streams.

HAYDEN AREA REGIONIAL SEWER BOARD

Please review our information. If you have questions, please contact me.

Sincerely,

Ken Windram, Manager

Hayden Area Regional Sewer Board

Enclosures

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND	PERMIT	NUMBER:

HAYDEN AREA REGIONAL SEWER BOARD ID002659-0

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BASIC APPLICATION INFORMATION							
PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:							
All t	All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.						
A.1.	Facility Information	acility Information.					
	Facility name	HAYDEN AREA REGIONAL SEWER BOARD					
	Mailing Address	10789 N. ATLAS RD HAYDEN ID 83835					
	Contact person	KEN WINDRAM					
	Title	MANAGER					
	Telephone number	(208) 772-0672					
	Facility Address	10789 N. ATLAS RD., HAYDEN ID 83835					
A.2.	Applicant Informat	on. If the applicant is different from the above, provide the following:					
	Applicant name	HAYDEN AREA REGIONAL SEWER BOARD					
Mailing Address 10789 N. ATLAS RD., HAYDEN ID 83835							
	Contact person	KEN WINDRAM					
	Title	MANAGER					
Telephone number <u>(208) 772-0672</u>							
Is the applicant the owner or operator (or both) of the treatment works?							
	owner	operator					
Indicate whether correspondence regarding this permit should be directed to the facility or the applicant. facility applicant							
A.3.	Existing Environme works (include state-	ental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment issued permits).					
	NPDES ID00265	9-0PSD <u>N.A.</u>					
	UIC N.A.	Other					
	RCRA N.A	Other					

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

Name Population Served Type of Collection System Ownership CITY OF HAYDEN 14,317 GRAVITY - PUMP STATIO CITY OF HAYDEN **HLRWSD** 4,775 **GRAVITY - PUMP STATIO HLRWSD**

KOOTENAI COUNTY 195 Total population served 19,287

GRAVITY - PUMP STATIO KOOTENAL COUNTY

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FACILITY NAME AND PERMIT NUMBER: HAYDEN AREA REGIONAL SEWER BOARD | ID002659-0

	Is the treatment works located in Indian Co	······· y -					
		analysing water that is a tele	or in Indian Country	r that le usa	troom from (c)	nd eventually	flowe
b.	through) Indian Country?	eceiving water that is eith	er in indian Country o	ı ınatıs ups	aream irom (al	ia everitually	HOWS
	Yes No						
av	ow. Indicate the design flow rate of the trea erage daily flow rate and maximum daily flo riod with the 12th month of "this year" occur	w rate for each of the last	three years. Each ye	ar's data m	ust be based o	le). Also prov on a 12-month	vide th n time
a.	Design flow rate 2.40 mgd						
		Two Years Ago	<u>Last Year</u>		This Year		
b.	Annual average daily flow rate	1.20		1.10		1.20	mgd
c.	Maximum daily flow rate	1.30		1.60		1.41	mgd
	ollection System. Indicate the type(s) of contribution (by miles) of each. Separate sanitary sewer		у ше пеаппен рынк.	OHECK all t		100.00	
	Combined storm and sanitary sewer	•	٠				70
Di	scharges and Other Disposal Methods.						
_	Does the treatment works discharge efflue	ent to waters of the LLS 2		√	Yes		No
a.	If yes, list how many of each of the followi		nts the treatment worl	(e lieee,			
	•	ng types of discriatige poli	to the heathlold woll	uous.	Ri	ver discharc	ne et
	i. Discharges of treated effluentii. Discharges of untreated or partially treated	eated effluent			,131	TOT GIOOTIGIT	
		satou ciliustit					
	iii. Combined sewer overflow points	ior to the headworks)					
	iv. Constructed emergency overflows (pr	IOI TO THE HEADWOLKS)					
	0.11						
	v. Other				<u></u>		
b.	Does the treatment works discharge effluing impoundments that do not have outlets for lf yes, provide the following for each surface.	ent to basins, ponds, or ot r discharge to waters of th	her surface ne U.S.?		 Yes		No
b.	Does the treatment works discharge efflur impoundments that do not have outlets for lf yes, provide the following for each surfatocation:	ent to basins, ponds, or ot r discharge to waters of th ace impoundment:	ne U.S.?		Yes		No
b.	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfaction: Annual average daily volume discharged	ent to basins, ponds, or ot r discharge to waters of th nce impoundment: to surface impoundment(s	s)		Yes		No
b.	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfaction: Annual average daily volume discharged	ent to basins, ponds, or ot r discharge to waters of th ace impoundment:	s)		Yes	mgd	No
b. c.	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treatment.	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(state intermittent)	s)		Yes	mgd	No
	Does the treatment works discharge efflur impoundments that do not have outlets for a surfact of the following for each surfact occation: Annual average daily volume discharged is discharge continuous or continu	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(state intermittent)	s)			mgd	
	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treatment.	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(state intermitted ted wastewater?	s)			mgd	
	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treatly yes, provide the following for each land	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(state intermitted ted wastewater?	s)			mgd	
	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treat If yes, provide the following for each land Location: 14248 North Huetter Rd	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(s intermitted wastewater? application site: , Hayden Id, 83835	s)	_ √		mgd	
	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treatly yes, provide the following for each land Location: 14248 North Huetter Rd Number of acres: 300.00	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(sted wastewater? application site: , Hayden Id, 83835 ite: 1.50	s)	√		mgd	
	Does the treatment works discharge efflur impoundments that do not have outlets for lifyes, provide the following for each surfat Location: Annual average daily volume discharged Is discharge continuous or Does the treatment works land-apply treat If yes, provide the following for each land Location: 14248 North Huetter Rd_Number of acres: 300.00 Annual average daily volume applied to see Is land application continuation.	ent to basins, ponds, or ot r discharge to waters of the ce impoundment: to surface impoundment(sted wastewater? application site: Hayden Id, 83835 ite: 1.50 Jour intermitted	e U.S.?			mgd	

FACILITY NAME AND PERMIT NUMBER: HAYDEN AREA REGIONAL SEWER BOARD ID002659-0

Form Approved 1/14/99 OMB Number 2040-0086

	arty other than the applicant, provide:		
Transporter name:	N.A.		
Mailing Address:	N.A.		
Contact person:	N.A.		
Title:	N.A.		
Telephone number:			
Name: Mailing Address:	N.A. N.A.		
Contact person:	N.A.		
Title:	N.A.		
Telephone number:		**************************************	
If known, provide the	NPDES permit number of the treatment works that receives this discharge.	N.A.	
	daily flow rate from the treatment works into the receiving facility.		0.00 mg
Provide the average of	orks discharge or dispose of its wastewater in a manner not included in	Yes	√ No
Does the treatment w	bove (e.g., underground percolation, well injection)?	res	
Does the treatment w A.8.a through A.8.d al	ove (e.g., underground percolation, well injection)?	res	

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

. Des	scription of Outfall.				
a.	Outfall number	001	_		
b.	Location	River mile 108.7, Coeur d' (City or town, if applicable)	'Alene 83814 (Zip Code)		
		KOOTENAI COUNTY	ÌDAHO (
		(County) 47* 41' 54"	(State) 116* 50' 03"		
		(Latitude)	(Longitude)		
c.	Distance from shore (if	applicable)	100.00 ft.		
d.	Depth below surface (if applicable)		12.00 ft.		
e.	Average daily flow rate		2.40 mgd		
			-		
f.	Does this outfall have either an intermittent or a		1		
	periodic discharge?		Yes No (go to A.9.g.)		
	If yes, provide the follo	wing information:			
	Number of times per ye	ear discharge occurs:			
	Average duration of ea				
	Average flow per discharge:		mgd		
	Months in which discha	arge occurs:			
g.	Is outfall equipped with	า a diffuser?	Yes No		
0. De	scription of Receiving	Waters.			
a.	Name of receiving wat	spokane Rivel	R		
b.	Name of watershed (if	known)	Spokane River Watershd		
	there to the total		rehad cada (if known):		
	United States Soil Cor	nservation Service 14-digit wate	sisted code (ii kilowit).		
c.	Name of State Management/River Basin (if known): Spokane River Basin				
	United States Geologic	cal Survey 8-digit hydrologic ca	ataloging unit code (if known):		
d.	Critical low flow of rece	eiving stream (if applicable):			
-	acute	cfs	chronic cfs		
e.	Total hardness of rece	oiving stream at critical low flow	(if applicable): mg/l of CaCO ₃		
e.	, s.c.i naraness of 160t	gat ontotal low now			

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 HAYDEN AREA REGIONAL SEWER BOARD ID002659-0 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. Other. Describe: ____ Advanced b. Indicate the following removal rates (as applicable): Design BOD, removal or Design CBOD, removal 85.00 Design SS removal 85.00 Design P removal 0.00 Design N removal 0.00 Other c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. CHLORINATION √ Yes If disinfection is by chlorination, is dechlorination used for this outfall? No d. Does the treatment plant have post aeration? A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: PARAMETER MAXIMUM DAILY VALUE AVERAGE DAILY VALUE Value Units Value Units Number of Samples pH (Minimum) s.u. pH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer) * For pH please report a minimum and a maximum daily value MAXIMUM DAILY **POLLUTANT** AVERAGE DAILY DISCHARGE ANALYTICAL ML / MDL DISCHARGE METHOD Units Conc. Units Number of Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. BIOCHEMICAL OXYGEN BOD-5 DEMAND (Report one) CBOD-5 FECAL COLIFORM TOTAL SUSPENDED SOLIDS (TSS) END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

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HAY	HAYDEN AREA REGIONAL SEWER BOARD ID002659-0					
ВА	ASIC APPLICATION INFORMATION					
PAR	RT B. ADDITIONAL APPLICATION INFORMATION FOR APPL EQUAL TO 0.1 MGD (100,000 gallons per day).	LICANTS WITH A DESIGN FLOW GREATER THAN OR				
All a	pplicants with a design flow rate \geq 0.1 mgd must answer questions B.1 thro	ough B.6. All others go to Part C (Certification).				
B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration 10,000.00 gpd						
	Briefly explain any steps underway or planned to minimize inflow and infiltration.					
	Collection system inspections locate inflitration and repair are ma					
В.2.	Topographic Map. Attach to this application a topographic map of the an This map must show the outline of the facility and the following information the entire area.)	n. (You may submit more than one map if one map does not show				
	a. The area surrounding the treatment plant, including all unit processes					
	 The major pipes or other structures through which wastewater enters treated wastewater is discharged from the treatment plant. Include or 	utfalls from bypass piping, if applicable.				
	c. Each well where wastewater from the treatment plant is injected under					
	d. Wells, springs, other surface water bodies, and drinking water wells the works, and 2) listed in public record or otherwise known to the application.	ant.				
	e. Any areas where the sewage sludge produced by the treatment works	·				
	f. If the treatment works receives waste that is classified as hazardous utruck, rail, or special pipe, show on the map where that hazardous wardisposed.	Inder the Resource Conservation and Recovery Act (RCRA) by ste enters the treatment works and where it is treated, stored, and/or				
i C	Process Flow Diagram or Schematic. Provide a diagram showing the probackup power sources or redundancy in the system. Also provide a water chlorination and dechlorination). The water balance must show daily averaflow rates between treatment units. Include a brief narrative description of	balance showing all treatment units, including disinfection (e.g.				
	Operation/Maintenance Performed by Contractor(s).					
C	Are any operational or maintenance aspects (related to wastewater treatme contractor?Yes _✓_No					
l 1	If yes, list the name, address, telephone number, and status of each contra pages if necessary).	ctor and describe the contractor's responsibilities (attach additional				
1	Name:					
1	Mailing Address:					
7	Telephone Number:					
F						
u tr	Scheduled Improvements and Schedules of Implementation. Provide uncompleted plans for improvements that will affect the wastewater treatment at morks has several different implementation schedules or is plann 3.5 for each. (If none, go to question B.6.)	information on any uncompleted implementation schedule or ent, effluent quality, or design capacity of the treatment works. If the ing several improvements, submit separate responses to question				
а	a. List the outfall number (assigned in question A.9) for each outfall that i	s covered by this implementation schedule.				
b	o. Indicate whether the planned improvements or implementation scheduYes _√_No	ile are required by local, State, or Federal agencies.				

OMB Number 2040-0086 HAYDEN AREA REGIONAL SEWER BOARD ID002659-0 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Schedule **Actual Completion** Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction __/ __/ ____ ___/ ___/ _____ ______ - End construction - Begin discharge ___/ ___/ _____ ___/ ___/ ____ ____/ ____/ ____ - Attain operational level e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ___Yes __ No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number:_ POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Units Conc. Units Number of ANALYTICAL ML / MDL Samples **METHOD** CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) CHLORINE (TOTAL RESIDUAL, TRC) DISSOLVED OXYGEN TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN OIL and GREASE PHOSPHORUS (Total) TOTAL DISSOLVED SOLIDS (TDS) OTHER END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99

FACILITY NAME AND	PERMIT NUMBER:		Form Approved 1/14/99			
HAYDEN AREA REGIONAL SEWER BOARD ID002659-0 OMB Number 2040-0086						
BASIC APPLICATION INFORMATION						
PART C. CERTIFICATION						
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.						
Indicate which parts of Form 2A you have completed and are submitting:						
Basic Appl	ication Information packet	Supplemental Application I	nformation packet:			
		Part D (Expanded	Effluent Testing Data)			
		Part E (Toxicity Te	esting: Biomonitoring Data)			
		Part F (Industrial L	Jser Discharges and RCRA/CERCLA Wastes)			
		Part G (Combined	Sewer Systems)			
ALL APPLICANTS MU	ST COMPLETE THE FOLLO	WING CERTIFICATION.				
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.						
Name and official title Ken Windram, Manager, Hayden Area Regional Sewer Board						
Signature Quillul						
Telephone number (208) 772-0672						
Date signed $\frac{5/28/10}{}$						
Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.						

SEND COMPLETED FORMS TO:



